

SAFETY DATA SHEET



Ref: GCS/SDS/0002

BEVGAS – 30, 50, 60 Carbon Dioxide (CO₂) and Nitrogen (N₂) Mixtures

01 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product Name BEVGAS 30, 50, 60 Carbon Dioxide and Nitrogen Mixtures
 Chemical Formula CO₂/N₂
 Company Identification Gas Container Services Ltd, Roadway No.7, Colwick Industrial Estate, Colwick, Nottingham. NG4 2JW
 Emergency Phone Numbers 0115 987 0944

Bevgas is a range of carbon dioxide / nitrogen mixtures designed specifically to meet the needs of the licensed trader for beverage dispense purposes. Bevgas is supplied in high pressure gas cylinders, each fitted with an outlet valve which must never be removed.

It is important that users know and understand the properties of Bevgas and how to handle safely high pressure gas cylinders before using Bevgas

Always read the label on the cylinder

| | | | | | | |
|--|---|-------------------------------|--|--|---|---|
| CARBON DIOXIDE E290 PLUS NITROGEN E941 | 30% CO ₂ PLUS 70% N ₂ UN 1956 COMPRESSED GAS N.O.S. | Filled to 200 BAR max at 15°C | | | Gas Container Services Ltd. Roadway No.7, Colwick, Nottingham NG4 2JW | IN EMERGENCY TEL. 0115 987 0944 |
| CARBON DIOXIDE E290 PLUS NITROGEN E941 | 50% CO ₂ PLUS 50% N ₂ UN 1956 COMPRESSED GAS N.O.S. | Filled to 200 BAR max at 15°C | | | Gas Container Services Ltd. Roadway No.7, Colwick, Nottingham NG4 2JW | IN EMERGENCY TEL. 0115 987 0944 |
| CARBON DIOXIDE E290 PLUS NITROGEN E941 | 60% CO ₂ PLUS 40% N ₂ UN 1956 COMPRESSED GAS N.O.S. | Filled to 200 BAR max at 15°C | | | Gas Container Services Ltd. Roadway No.7, Colwick, Nottingham NG4 2JW | IN EMERGENCY TEL. 0115 987 0944 |

| Bevgas gas type | Nominal gas volume | Cylinder size (mm) | | Maximum filling pressure (bar) | Approx cylinder weight (kg) | Nominal weight of gas (kg) | Gross weight of cylinder + gas (kg) |
|---|--------------------|--------------------|--------|--------------------------------|-----------------------------|----------------------------|-------------------------------------|
| | | Diameter | Height | | | | |
| Bevgas 30 30% CO ₂ / 70% N ₂ | 2.26 | 165 | 750 | 200 | 17.5 | 3.14 | 20.64 |
| Bevgas 50 50% CO ₂ / 50% N ₂ | 2.75 | 165 | 750 | 200 | 17.5 | 4.20 | 21.70 |
| Bevgas 60 60% CO ₂ / 40% N ₂ | 2.80 | 165 | 750 | 200 | 17.5 | 4.53 | 22.03 |

Intended Use

Bevgas CO₂/N₂, is intended only for beverage dispense purposes. Do not use for any other purpose.

02 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation Preparation
 Components/Impurities Contains no other components or impurities which will influence the classification of the product.

03 HAZARDS IDENTIFICATION

Hazards identification Compressed gas.
 In high concentrations may cause asphyxiation.

04 FIRST AID MEASURES

Inhalation In high concentrations may cause asphyxiation.
 Symptoms may include loss of mobility/consciousness.
 Victim may not be aware of asphyxiation.
 Low concentrations of CO₂ cause increased respiration and headache.
 Remove victim to uncontaminated area wearing self contained breathing apparatus.
 Keep victim warm and rested.
 Call a doctor.
 Apply artificial respiration if breathing stopped.

Ingestion Ingestion is not considered a potential route of exposure.

05 FIRE FIGHTING MEASURES

Specific hazards Exposure to fire may cause containers to rupture/explode.
 Non flammable.
 Hazardous combustion products None.
 Suitable extinguishing media All known extinguishants can be used.
 Move away from the container and cool with water from a protected position.
 Special protective equipment for fire fighters In confined space use self-contained breathing apparatus.

06 ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate Area.
 Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
 Ensure adequate air ventilation.
 Try to stop release only if safe to do so.

Environmental precautions Prevent from entering sewers, basements, cellars and workpits, or any place where its accumulation can be dangerous.

06 ACCIDENTAL RELEASE MEASURES . . . cont . . .

Clean up methods Ventilate area.

07 HANDLING AND STORAGE

Handling and storage. Cylinders should be secure when stored or in use.
Suck back of water into the container must be prevented.
Do not allow backfeed into the container.
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. If in any doubt, contact your gas supplier.
Refer to supplier's container handling instructions.
Keep container below 50°C in well ventilated place.

08 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit value for Great Britain: STEL: 15000 ppm; LTEL: 5000
country ppm (EH 40/97).
Personal protection Ensure adequate ventilation.

09 PHYSICAL AND CHEMICAL PROPERTIES

Relative density, gas Gas/vapour heavier than air.
Solubility mg/1 water No reliable data available.
Appearance/Colour Colourless gas.
Odour No odour warning properties.
Other data Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10 STABILITY AND REACTIVITY

Stability and reactivity Stable under normal conditions.

11 TOXICOLOGICAL INFORMATION

General In high concentrations cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.
Carbon dioxide is mildly toxic, with no cumulative effects.

12 ECOLOGICAL INFORMATION

General When discharged in large quantities may contribute to the greenhouse effect.

13 DISPOSAL CONSIDERATIONS

General Do not discharge into any place where its accumulation could be dangerous.
To atmosphere in a well ventilated place.
Discharge to atmosphere in large quantities should be avoided.
Contact supplier if guidance is required.

14 TRANSPORT INFORMATION

UN Nr 1956
Class/Div 2.2
ADR/RID Classification 1A
code
ADR/RID Hazard Nr 20
Labelling ADR Label 2.2: non flammable non toxic gas
Other transport Avoid transport on vehicles where the load information space is not separated from the driver's compartment.
Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
Before transporting product containers, ensure that they are firmly secured and:-
- cylinder valve is closed and not leaking.
- valve outlet cap nut or plug (where required) is correctly fitted.
- valve protection device (where provided) is correctly fitted.
- there is adequate ventilation.
- compliance with applicable regulations.

15 REGULATORY INFORMATION

Number in Annex I Dir Not applicable for preparations.
67/548
EC Classification Not Classified as dangerous preparation.
EC Labelling *Symbols, No EC labelling required
R&S Phrases)

16 OTHER INFORMATION

Asphyxiant in high concentrations
Keep container in well ventilated place.
Do Not breathe the gas.
Ensure all national/local regulations are observed.
The hazard of asphyxiation is often overlooked and must be stressed during operator training.
Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.
Details given in this document are believed to be correct at the time of going to press. Whilst proper care as been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.
This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.
The MSDS is for information purposes only and is subject to change without notice. [Prior to purchase of products, please contact Gas Container Services Limited for a complete MSDS (with Manufacturer's name and emergency phone number).]